MULTI-CD CONTROL FM/AM
TUNER DECK AMPLIFIER

SUPER TUNER

KEH-M3002QR

OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prendre soin de lire ce manuel.

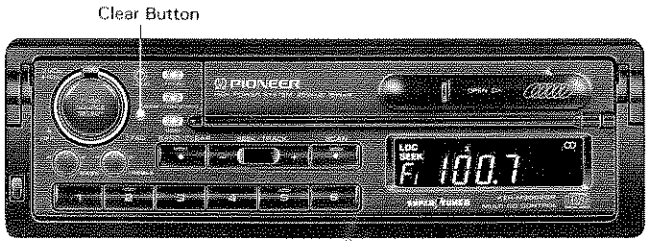
Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

شكرا لك على شرائك جهاز بايونير هذا. قبل محاولة تشغيله تأكد من قراءة هذا الدليل.

PIONEER®

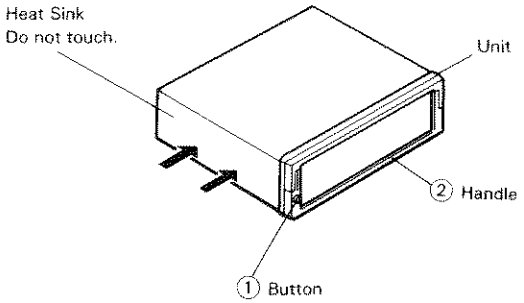
• Using the Clear Button

Once all wiring is complete, press the Clear button with a thin, pointed object. Though not a normal occurrence, the microprocessor which controls the operation of this unit can be affected by electrostatic noise. This generally is indicated by such symptoms as no power being supplied when you switch the unit on, failure of buttons and controls, or an abnormal display. Should this happen, press the Clear button with a thin, pointed object to reset the microprocessor.



• Removing the Unit

- Press the Button ① to raise the Handle ②. Hold the handle and pull the unit toward you to remove it from the mounting bracket.
- If you raise the Handle ②, power is automatically turned off.
- The left side of the unit can become extremely hot. When removing the unit from the mounting bracket, be sure to avoid touching the left side for a few minutes.



Features

- Multi CD Control function for full control over optional magazine type multi-play CD player.
- Built-in highly sensitive "Super Tuner" for automatic control of stereo separation, muting, and frequency characteristics to match the strength of the FM signal.
- For AM reception, a tuning step is switchable to the other according to the zonal frequency range.
- The Best Stations Memory automatically memorizes the six best (strongest) stations in the six preset buttons in the order of their strength.
- Versatile tuning system (preset, preset scan, seek, manual).
- Auto reverse function eliminates the need to turn the cassette over and allows uninterrupted playback.
- Radio/CD intercept allows uninterrupted reception during tape's Fast Forwarding/Rewinding
- Choice of either 4-speaker or 2-speaker system is possible. When the 4-speaker system (15 W x 4) is used, volume of front and rear speakers can be adjusted independently, for optimum sound balance. The 2-speaker system (25 W x 2) provides more than enough power for clear, high-fidelity playback.
- The "Quick Release Mounting Bracket", facilitates mounting and dismounting of the car stereo and serves to protect the unit from theft.

Changing the Tuning Steps

Changing the Tuning Step

The tuning steps of the AM band for this unit can be switched between 9 kHz and 10 kHz per step. The tuning step should be switched from 9 kHz (which is preset at the factory) to 10 kHz when this unit is used in North America, Central America, or South America.

1. Turning the power switch ① to the right causes power to switch ON and turn the ignition switch off.
2. While pressing either the (+) or (—) of button ②, turn the ignition swtich on. It should be noted that changing the tuning steps also deletes frequencies stored in the tuning memories.

Specification		Initial Setting	New Setting
AM	Tuning steps	9 kHz steps	10 kHz steps
	Frequency range	531 — 1,602 kHz	530 — 1,710 kHz

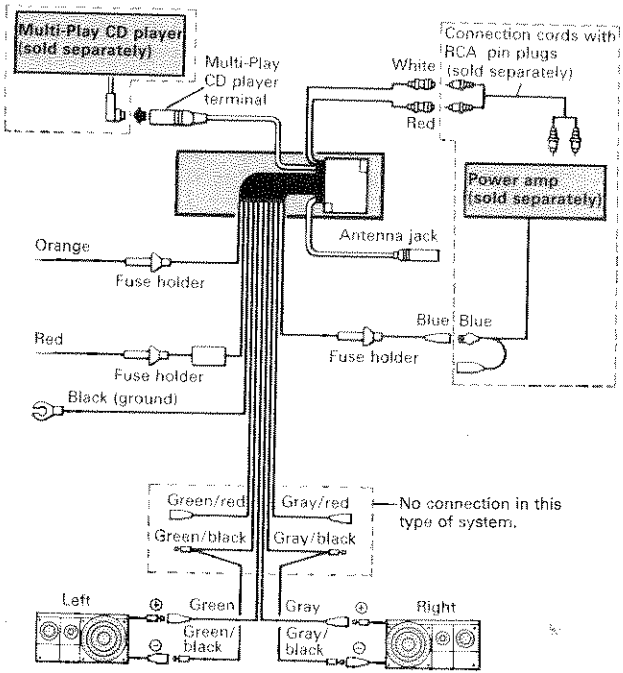
Connections

Note:

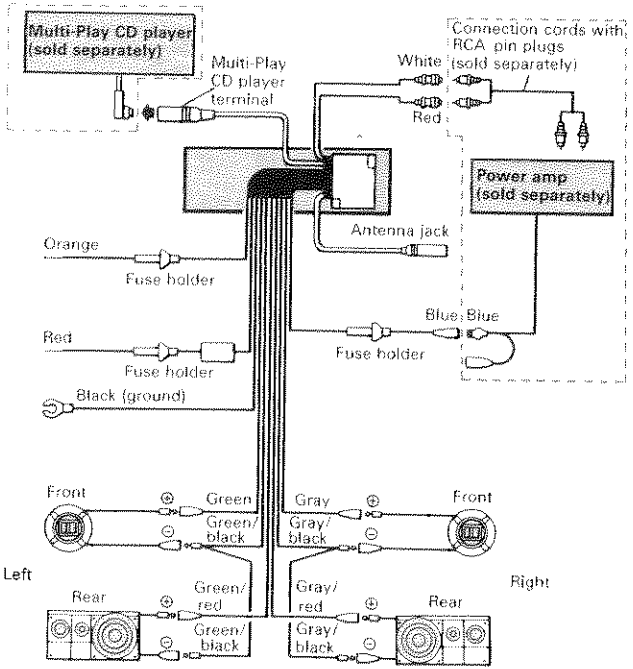
- To avoid shorts in the electrical system, be sure to disconnect the battery ⊖ cable before beginning installation.
- Replace fuses only with the types stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.
- Cover unused terminals with tape to prevent electrical shorts.
- Refer to the power amp owner's manual when connecting a power amp (sold separately) to the RCA pin jack.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right speaker ⊖ leads are common.
- Speakers connected to this unit must be high-power type possessing maximum input of at least 25 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.
- When the power amp. is being linked with this system, be sure not to connect the blue lead to the amp.'s power terminal. Likewise, when linking this system with the auto-antenna, do not connect to power terminal for the antenna. Such connection can make overcurrent cause malfunctions.

Blue	If this unit is combined with a power amp, connect its blue lead to the blue lead (system control terminal) of the power amp. If combined with an auto-antenna, connect its blue lead to the relay control terminal of the auto-antenna. (MAX. 300 mA, 12 V DC)
Orange	To terminal always supplied with power regardless of ignition switch position.
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
Black (ground)	To vehicle (metal) body.

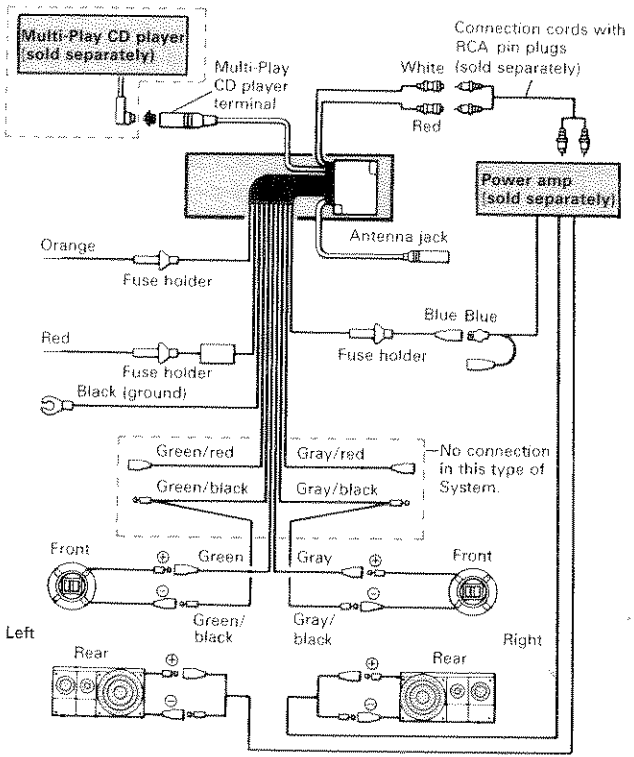
2-speaker system



4-speaker system 1



4-speaker system 2



Note:

- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 1)

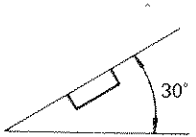
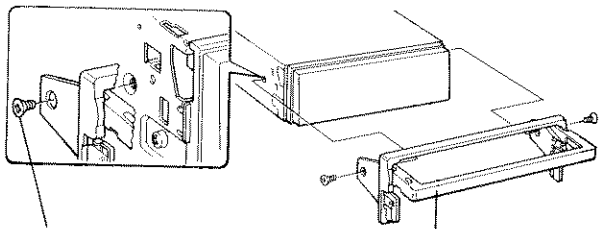


Fig. 1

Before Installation

- When installation requires the screw holes on the sides of the unit (DIN Rear Mount), remove the handle before installing the snap brackets.

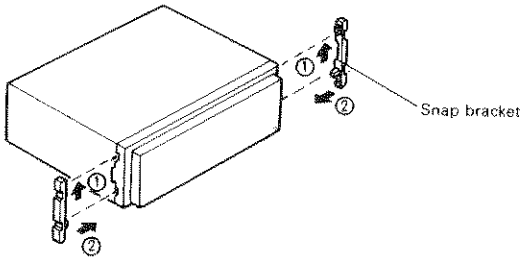
1. Removing the handle



Remove the handle by loosening the screws (5 × 8 mm) holding it in place.

Handle

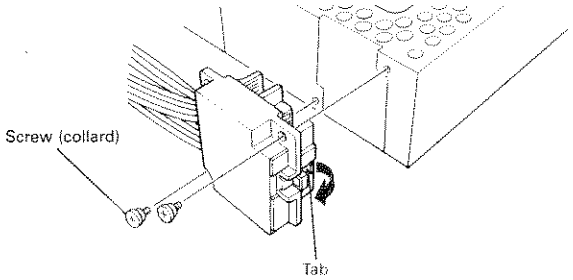
2. Installing the snap brackets



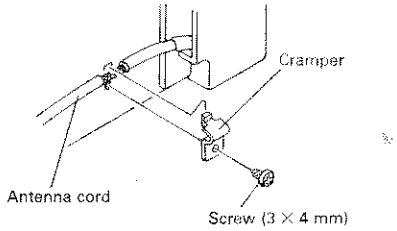
Install the cord unit

Using the quick-release mounting bracket to install the unit into the vehicle (DIN front-mount).

1. Bend the tab of the cord unit in the direction indicated by the arrow and install the quick-release mounting bracket using the screws (collard). Do not bend the tab for DIN rear-mount installation.

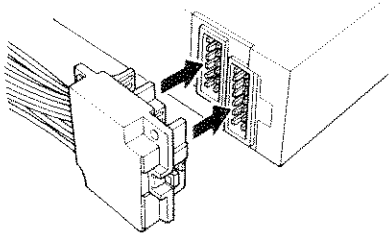


2. In order to prevent noise, fasten the bare part of the antenna cord to the quick-release mounting bracket by screwing the cramper supplied.



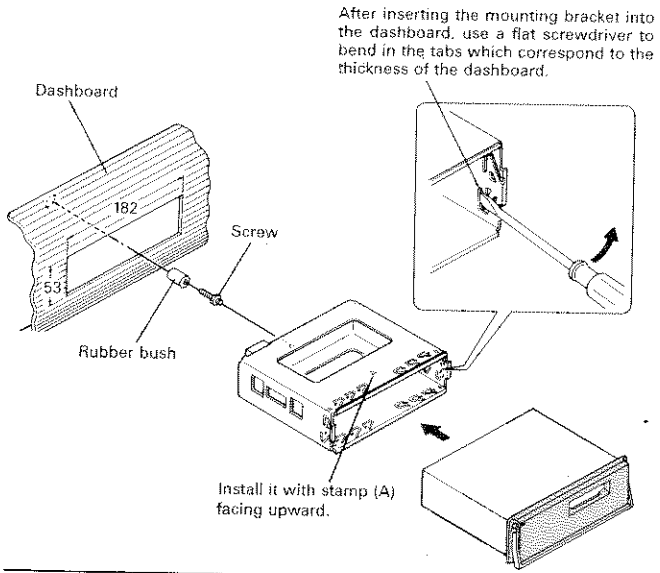
Using the screw holes in the side of the unit to install it into the vehicle (DIN rear-mount).

Install the cord unit into the main unit.

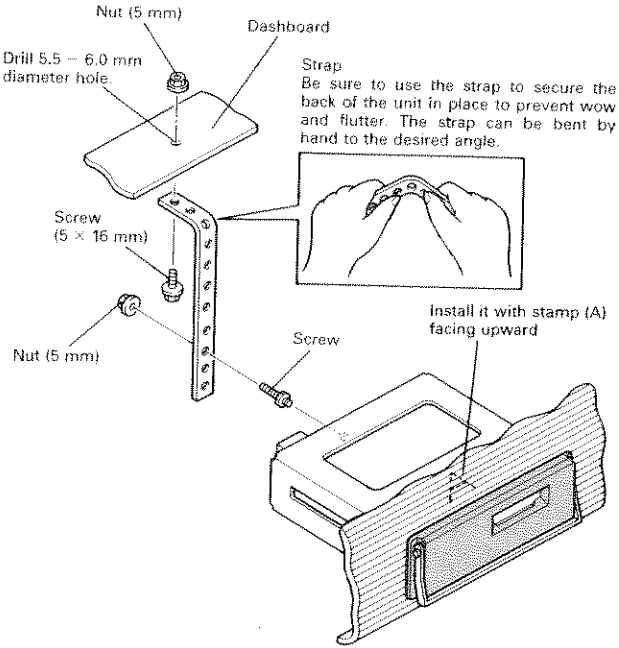


DIN Front/Rear-mount:
This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing thread screw holes at the sides of unit chassis). For details, refer to the following illustated installation methods.

Installation with the rubber bush (DIN Front-mount)


After inserting the mounting bracket into the dashboard, use a flat screwdriver to bend in the tabs which correspond to the thickness of the dashboard.
Dashboard
182
53
Screw
Rubber bush
Install it with stamp (A) facing upward.

Installation without the rubber bush (DIN Front-mount)


Nut (5 mm)
Dashboard
Drill 5.5 – 6.0 mm diameter hole.
Strap
Be sure to use the strap to secure the back of the unit in place to prevent wow and flutter. The strap can be bent by hand to the desired angle.
Screw (5 × 16 mm)
Nut (5 mm)
Screw
Install it with stamp (A) facing upward

Installation using the screw holes on the sides of the unit (DIN Rear-mount)

Fastening the unit to the factory radio mounting bracket.

For the screw hole marked A in Fig. 1, use 5 × 8 mm screws. (Fig. 2)

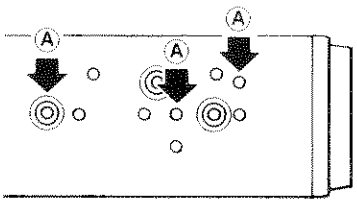


Fig. 1

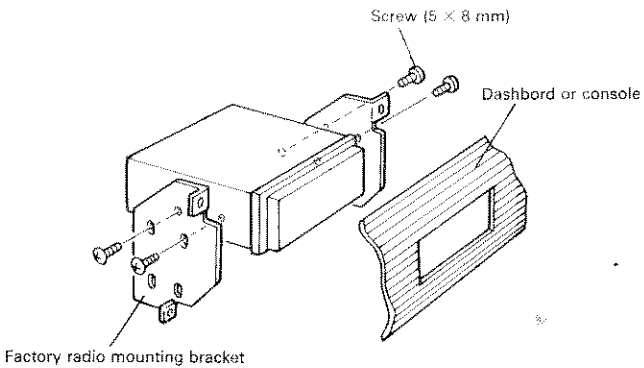
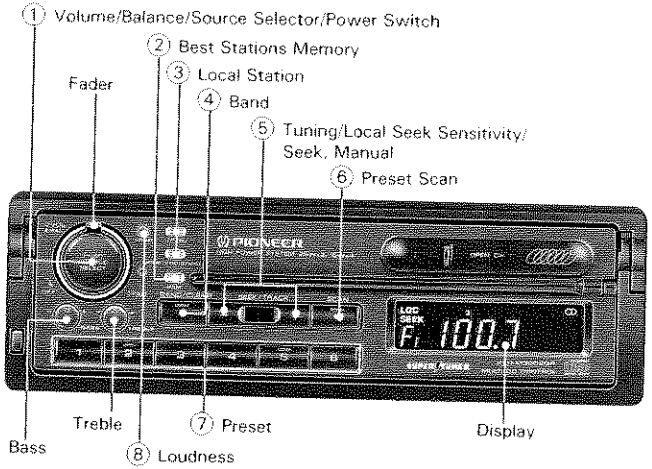
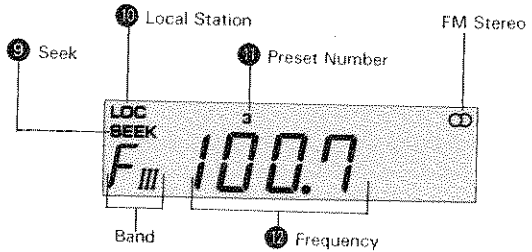


Fig. 2

Using the Radio





1 **Turning the power switch ① to the right causes power to switch ON.**

2 **Press Button ① to select the Radio mode.**

3 **Press Button ④ to select a band.**

$F_I \rightarrow F_{II} \rightarrow F_{III} \rightarrow M$

(FM1) (FM2) (FM3) (AM)

4 **Use seek tuning to tune in a frequency.**

Confirm that the "**SEEK**" indicator ⑨ is shown on the display (if not, press the (+) and (−) sides of Button ⑤ at the same time). Press the (+) side of Button ⑤ to automatically tune in the next higher receivable frequency, and the (−) side for a lower frequency.

5 **Adjust volume, balance and tone.**

To adjust the balance, first pull the knob ① until a click is heard. After setting to the desired level, push the knob ① in again to its original position.

6 **Assign the tuned frequency to one of the buttons in Bank ⑦ (preset memory).**

Press and hold down one of the buttons in Bank ⑦ for at least two seconds. The frequency is assigned to the selected button when the preset number ⑪ stops flashing on the display. Up to 18 FM stations (6 each for FM1, FM2 and FM3), and six AM stations can be assigned to the preset memory buttons in Bank ⑦.

7 **Once a frequency is assigned to a button in Bank ⑦, you just need to press that button to tune it in.**

This also causes the number of the button pressed to appear at Position ⑪ on the display.

Preset Scan Tuning

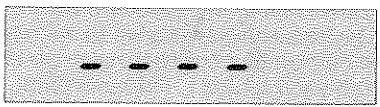
This function lets you automatically monitor the stations assigned to the preset buttons.

1. Press the button ⑥, and the preset number ⓫ flash.
   Each station assigned to the buttons in Bank ⑦ will be automatically tuned in for about eight seconds.
2. When you hear a station that you like, press Button ⑥ again to cancel preset scan tuning and remain at that station.

BSM (Best Stations Memory)

This function automatically locates stronger stations and automatically assigns their frequencies to the buttons in Bank ⑦, from strongest to weakest. It comes in handy when trying to find local stations while driving.

1. Press Button ④ and select a band.
2. Hold down Button ② about two seconds to start the BSM search. At this time, "— — — —" will flash on the display.



3. The frequency display will return once BSM search is complete, and frequencies are assigned to buttons 1 through 6 in Bank ⑦.

- At the end of the BSM search, the displayed frequency is that assigned to Button [1] of Bank ⑦.
- If there are fewer than six strong stations in the area, some of the buttons in Bank ⑦ will not be assigned frequencies, so they will retain any frequencies assigned to them previously.
- BSM search may take as long as 30 seconds in areas where there are few strong stations.
- You can cancel BSM search by pressing Button ②.

Manual Tuning

Use manual tuning when stations are too weak to be picked up by seek tuning.

1. Press both (+) and (–) sides of Button ⑤ at the same time to clear "SEEK" ❾.
2. Each press of the (+) side of Button ⑤ increases the frequency in 50 kHz steps in the FM band and 9 kHz in the AM band. Pressing the (–) side of Button ⑤ decreases the frequency. Holding down either side of Button ⑤ changes the frequency at high speed.

- AM frequencies are tuned in 10 kHz steps after the tuning steps are changed.

Fader Control

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control to the left decreases the volume of the rear speakers, while turning it to the right decreases the volume of the front speakers. With 2-speaker systems, set this control to the upright position.

Using the Loudness Function

When playing back a tape or listening to the radio at low volume, the low and high tones are emphasized and more clearly heard by pressing Button ⑧.

Adjusting Seek Sensitivity

The seek tuning function of this tuner lets you select between a local setting for reception of strong stations only, and a DX (distant) setting for reception of weaker stations. The local setting also has four seek tuning sensitivity levels for FM and two levels for AM to match local conditions.

Changing the Local Seek Sensitivity

1. Use Button ④ to select a band.
2. Hold down the button ③ for more than two seconds, and the display will show you the current local seek sensitivity for about five seconds.

(Example: L-2)

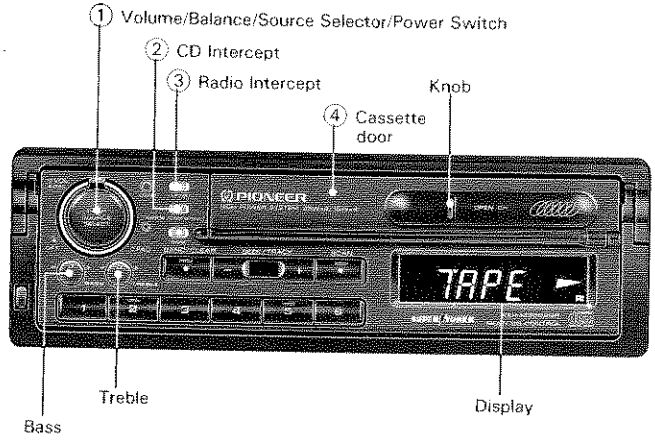
3. While the local seek sensitivity remains on the display, press the (+) side of Button ⑤ to increase the sensitivity level, and the (–) side to decrease the level as shown below.
   FM : L-1 ⇄ L-2 ⇄ L-3 ⇄ L-4
   AM : L-1 ⇄ L-2
   The L-4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

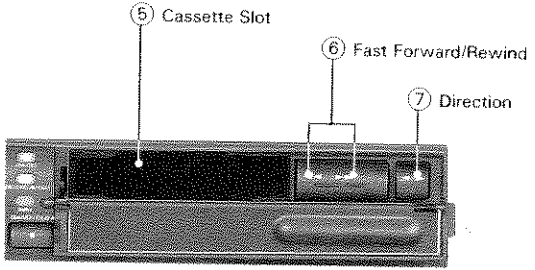
- The display of local seek sensitivity returns to the frequency when about five seconds have elapsed after the change of sensitivity.

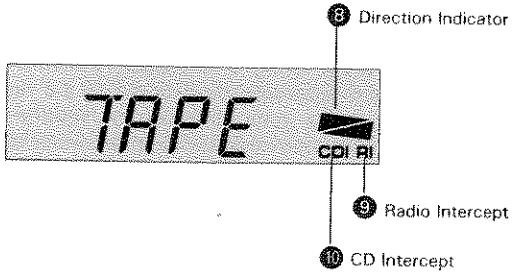
Switching between Local and DX

Press Button ③ to switch between Local and DX (distant) seek tuning.
When "**LOC**" ⑩ is shown on the display, seek tuning is performed with the local seek sensitivity. Otherwise, seek tuning is performed with the DX seek sensitivity.

Using the Tape Deck







[1] **Turning the power switch ① to the right causes power to switch ON.**

[2] **To open the cassette door, gently slide the knob on the cassette door ④ to the right with your finger, and then release your finger from the door.**

- Close the cassette door ④ when not playing a tape.

[3] **Load the tape in through the cassette slot ⑤.**

[4] **Press Button ① to select the tape mode.**

[5] **Adjust the volume, balance and tone.**

To adjust the balance, first pull the knob ① until a click is heard. After setting to the desired level, push the knob ① in again to its original position.

[6] **To eject the tape during playback, simultaneously press the Fast Forward and Rewind Buttons ⑥.**

- When there is no tape in the cassette slot ⑤, "**TAPE**" flashes on the display.
- Even if you eject a tape while it is playing, power to the main unit is not switched off. When you aren't using the main unit, turn the Power Switch ① to the left to switch power off.

Note:

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.

Changing Program

Press the button ⑦ to change the side of tape from A to B or vice versa.

Using Fast Forward and Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons ⑥ can be regard as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button ⑥ that corresponds to the direction that is shown by the direction indicator ❽.

When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button ⑥ that is opposite that of the direction shown by the direction indicator ❽. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button ⑥.

Using Radio Intercept

Use Radio Intercept to hear radio while Fast Forward or Rewinding.

1. Press the button ③ ("**RI**" ❾ appears) before Fast Forward or Rewinding, and you will hear radio.
2. To release the Radio Intercept function, press the button ③ again.

Using CD Intercept

If you have connected an optional multi-play CD player, use CD Intercept to hear disc play while Fast Forward or Rewinding.

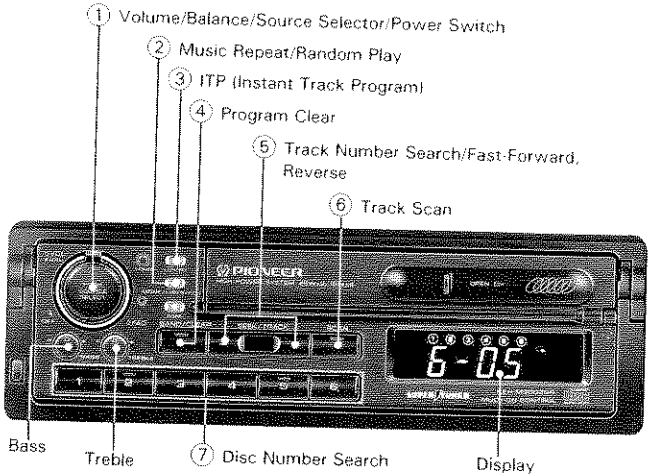
1. Press the button ② ("**CDI**" ❿ appears) before Fast Forward or Rewinding, and you will hear disc play.
2. To release the CD Intercept function, press the button ② again.

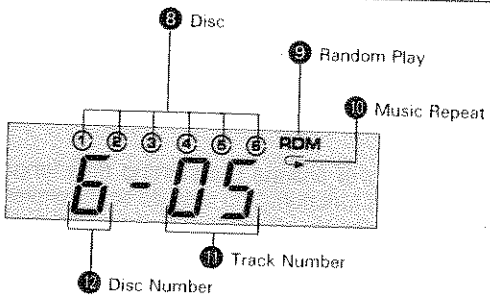
Precautions When Using the Multi-Play CD Control

- This model can be used as controller when an optionally available multi-play CD player (e.g., CDX-M50) is included in the system. Programmed play does not operate when used with the multi-CD player CDX-M70 or CDX-M100.
- See pages 17 through 21 for details on operation procedures.
- The Owner's Manual for the multi-play CD player does not contain an explanation of the CD controls for this unit. Read this Owner's Manual for details on proper operation and keep it handy for later reference.
- Immediately after the multi-play CD player is connected to the system, it may not operate properly (i.e. the system will not enter the multi-play CD player mode when you press the source selector button). In this case, press the clear button of the main unit and the clear button of the multi-play CD player, and attempt operation again.
- An *Err* (error) indicator is shown on the display and operation of the system becomes impossible when there are no discs in the magazine or when the discs are loaded into the magazine with their labels facing upwards. Whenever this message appears, remove the disc magazine and check the discs.
- The indicator *HHHH* flashes on the display and playback is automatically cut when the temperature around the multi-play CD player becomes too high. This protects the laser mechanism from serious damage. Listen to the radio until the temperature returns to normal.
  (This functions only when your unit is used with a Multi-Play CD player CDX-M100.)

The Magazine Type Multi-Play CD players with mark and the Magazines with the same mark are compatible for 5-inch (12 cm) discs.

Playing Compact Discs





[1] Turning the power switch ① to the right causes power to switch ON.

[2] Press Button ① to select the Multi-Play CD player mode.

[3] Use the Disc Number Search function to select a disc.

Select the desired disc by pressing one of the buttons in Bank ⑦. The number of the disc selected appears at Position ⑫ on the display.

- Display ⑧ indicates whether the magazine is loaded or empty.
- If the number at Position ⑫ on the display does not change when you press a button in Bank ⑦, it means that there is no disc loaded in that tray.

[4] Use Track Number Search to select a track.

Confirm that Track Number is shown at Position ⑪ on the display.

If not, press the (+) and (–) sides of Button ⑤ at the same time. Press the (+) side of Button ⑤ to increase the number at Position ⑪, or the (–) side to decrease the number. Holding either side of Button ⑤ down changes the track number at high speed.

[5] Adjust the volume, balance and tone.

To adjust the balance, first pull the knob ① until a click is heard. After setting to the desired level, push the knob ① in again to its original position.

[6] To stop disc play, press Button ①.

If you switch to the Multi-Play CD player mode again, the normal play resumes from about where it stopped.

- If you stopped operating a Multi-Play CD Player CDX-M100 in the middle of music and then restarted, the player resumes playing from the very beginning of the selection with which you stopped.

Note:

- After you press a Button in Bank ⑦, it may take some time before play begins due to the time necessary to load and set the disc in the mechanism.
- When you switch to the Multi-Play CD player mode, if there is no magazine loaded in the Multi-Play CD player, "**Cd**" flashes on the display.
- Even if you eject the magazine while a CD is playing, power to the main unit is not switched off. When you aren't using the main unit, turn the Power Switch ① to the left to switch power off.
- The display counts down the number of seconds between tracks if the spacing is rather large (-02, -01).

Using Highlight Scan

Highlight Scan is designed to enable you to conveniently scan all pieces of music contained in the disc by playing 10 seconds each at your designated point of time after the start of the music. The starting time of play is set at one minute in factory. Therefore, the Highlight Scan begins one minute after the start unless you designate it otherwise. (This function does not operate when used with the CDX-M70 or CDX-M100.)

When you do not want to change the factory-set time:

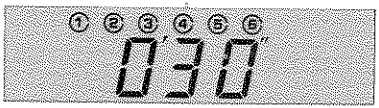
1. Press Button ⑥ (Track Number ⓫ flashes).
2. The contained pieces of music will be played in sequence for 10 seconds each one minute after the beginning.
3. Press Button ⑥ again when your selected piece comes, and it will continue to play. At this point, the Highlight Scan discontinues to operate.

- The previous function automatically resumes when a piece of music with which Highlight Scan began returns.

Changing the Starting Time of Highlight Scan

When you want to set the starting time of the Highlight Scan to 30 seconds:

1. Press Button ⑤, (+) and (–) sides simultaneously, and time numerals will be displayed.
2. Keep pressing either (+) or (–) side of Button ⑤ until the numerals reaches 30.



3. Hold down Button ⑥ for two or more seconds, and Track Number ⓫ flashes and the Highlight Scan will begin 30 seconds after the start of the next piece of music.

- The starting time of Highlight Scan can be designated at ten or tens of seconds only. A tenth or tenths of seconds can be disregarded.
- If a piece of music ends before your designated point of time at which Highlight Scan starts, the scanning is performed for its beginning 10 seconds.
- If a piece of music lasts less than 10 seconds, so does the Highlight Scan.
- You may wish to change the starting time longer without suspending the function. You may do so, however, only to a relatively long-playing piece of music because, as a matter of course, the time cannot be set so as to come after the end of the music.

Using Track Scan

This function lets you scan through the tracks on a disc by playing only the first ten seconds of each track. (This function operates only when used with the CDX-M70 or CDX-M100.)

1. Press Button ⑥ (Track Number ⓫ flashes).
2. To cancel track scan and continue play at the current track, press Button ⑥ again.

* After track scan plays through all of the tracks, disc play resumes from the beginning of the track from which track scan was started.

Using Music Repeat and Random Play

Each time ② is pressed, the mode is changed in the following order: Repeat ("↻" ⓾ appears) → Random Play ("**RDM**" ❾ appears) → Release.

Music Repeat

1. To repeat the music you are listening to, select the repeat mode ("↻" ⓾ appears).
2. To cancel music repeat, press button ②. This turns "↻" ⓾ off.

* When Music Repeat is not operational, the compact discs contained in the magazine will play sequentially from beginning to end, and then start from disc 1 again.

Random Play

1. To play music randomly, select the random play mode ("**RDM**" ❾ appears). Once the current track has been played, the microprocessor will randomly select the next and subsequent tracks.
2. To cancel random play, press button ②. This turns "**RDM**" ❾ off.

* Since selections are played in random order, the same selection may be played twice in succession.
* When a Multi-Play CD Player CDX-M100 is used, random selection is made from a disc being played.

Using Fast Forward and Reverse

1. Press simultaneously both (+) and (–) sides of the button ⑤. At this time the display will show the amount of elapsed disc play time.

2. Press the (+) side of Button ⑤ for fast forward, and the (–) side for reverse.

* Sound is output during fast forward and reverse operations.

Using Program Play

This function lets you program the play sequence of all of the tracks contained on the compact discs loaded in the magazine.

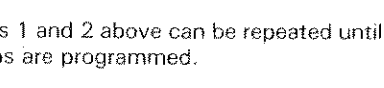
- The ITP function will not operate when connected to either the CDX-M70 or CDX-M100.
- Up to 32 selections can be programmed for a single magazine.
- Up to 16 different magazines (max. 32 selections per magazine) can be programmed individually. If you program more than 16 magazines, old programs are automatically replaced by new ones.
- Automatic Magazine Program Selection (AMPS) retrieves the right program from the memory automatically, as soon as a preprogrammed magazine is loaded. Preprogrammed magazines are identified using the CD in the tray 1 of the magazine. Therefore be sure that tray 1 contains a disc.

Programming

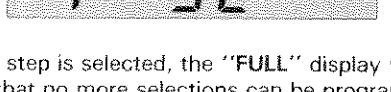
1. While a disc is playing, select the desired disc and track you want to program. (See page 17)
2. Press the ITP button ③ to memorize the track being played.

Displays the number of the step being added to the memory.

3. Procedures 1 and 2 above can be repeated until a maximum of 32 steps are programmed.



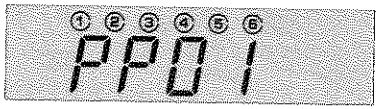
- If the 33rd step is selected, the "**FULL**" display will appear, indicating that no more selections can be programmed.



- ITP memory is also possible during track scan.
- ITP memory is not possible during music repeat or random play.
- When there are already a number of selections in the memory, the new selection will be added to the last step.

Playing back the program

1. Hold down the ITP button ③ for 2 seconds to begin play in the programmed sequence, while a disc is playing.



Displays the step number being played.

2. Press the ITP button ③ again to cancel program play.

- Pressing button ⑤ during programmed play makes it possible to search for a specific step number from among the programmed selections.
- Program play returns to the first step in the programmed sequence when it reaches the end of the program.

Erasing the program

It is possible to erase one or all selections of the program in the magazine being played.

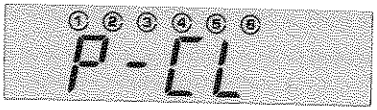
To erase a single selection:

1. Press button ⑤ during programmed play, and search for the specific step you wish to erase.
2. Press the Program Clear button ④ for at least 2 seconds and the selection being played will be erased.

- After the particular track has been erased, the tracks in the next position move from down up one notch in the order from the previous position.

To erase the entire program:

While a disc is playing, hold down button ④ for at least 2 seconds. All the programs in the magazine being played will be erased.



Indicates "P-CL."

Care and Maintenance

- Do not use tapes longer than C-90-type (90 min.) cassettes. Longer tapes can interfere with tape transport.
- If the playback head becomes dirty, sound quality will suffer. Periodically (once or twice a month) clean the head with a cotton swab soaked with alcohol. (Fig. 1)
- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport. (Fig. 2)
- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.
- If the car's battery is disconnected for any reason the preset memory will be erased and must be reprogrammed after reconnection of the battery.

• After Service

In the event this unit does not function properly, contact your dealer or the nearest authorized PIONEER Service Center.

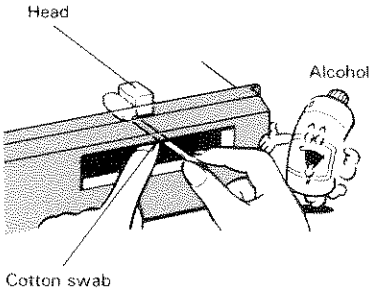


Fig. 1

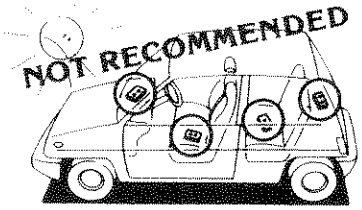


Fig. 2

Specifications

General
Power source ..... 14.4 V DC (10.8 – 15.6 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 7.5 A
Dimensions
(chassis) ..... 178 (W) x 50 (H) x 150 (D) mm
(nose) ..... 188 (W) x 58 (H) x 13 (D) mm
(mounting bracket) ..... 182 (W) x 52 (H) x 166 (D) mm
Weight ..... 1.4 kg

Amplifier
Maximum power output ..... 25 W x 2/15 W x 4 (EIAJ)
Continuous power output ..... 11 W x 2 (1% dist. at 1 kHz)
Continuous power output is 10 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.
Load impedance ..... 4 Ω (4–8 Ω allowable)
Preout output level/Impedance ..... 500 mV/1 kΩ
Tone controls (bass) ..... ± 10 dB (100 Hz)
(treble) ..... ± 10 dB (10 kHz)
Loudness contour ..... +12 dB (100 Hz), +7 dB (10 kHz) (volume: –30 dB)

Tape player
Tape ..... Compact cassette tape (C-30 – C-90)
Tape speed ..... 4.8 cm/sec.
Fast forward/rewind time ..... Approx. 100 sec. for C-60
Wow & flutter ..... 0.13% (WRMS)
Frequency response ..... 40 – 14,000 Hz (± 3 dB)
Stereo separation ..... 45 dB
Signal-to-noise ratio ..... 55 dB (IEC-A network)

FM tuner
Frequency range ..... 87.5 – 108 MHz
Usable sensitivity ... 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity ..... 16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio ..... 70 dB (IEC-A network)
Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 30 – 15,000 Hz (± 3 dB)
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)

AM tuner
Frequency range ..... 531 – 1,602 kHz (9 kHz)
530 – 1,710 kHz (10 kHz)
Usable sensitivity ..... 18 μV (25 dB) (S/N: 20 dB)
Selectivity ..... 50 dB (± 9 kHz)
50 dB (± 10 kHz)

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

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